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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|--------------------------|----------------------|-------------------------------|------------------|
| 10/707,479 | 12/17/2003 | Jean-Francois Fauh | FR920030017US1 1478 EXAMINER | |
| 24241 IDM MICROE | 7590 11/29/2007 | | | |
| IBM MICROELECTRONICS INTELLECTUAL PROPERTY LAW | | | DINH, TUAN T | |
| 1000 RIVER S 972 E | 1000 RIVER STREET | | ART UNIT | PAPER NUMBER |
| | ESSEX JUNCTION, VT 05452 | | 2841 | |
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| | | | MAIL DATE | DELIVERY MODE |
| | | | 11/29/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
|---|---|--|--|--|--|
| | 10/707,479 | FAUH ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Tuan T. Dinh | 2841 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on 11 Section 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression 2 section 2 section 2 section 2 section 3 section 2 section 2 section 2 section 2 section 2 section 3 section 2 section 2 section 2 section 3 section 2 section 2 section 3 section 2 section 3 section 3 section 2 section 3 secti | action is non-final. ice except for formal matters, pro | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1,2,10,12-16 and 21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,10,12-16 and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 10) The oath or declaration is objected to by the Examiner 11) | epted or b) objected to by the lad on by the lad on by the lad on by the lad on is required if the drawing(s) is obj | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | | |
| Priority under 35 U.S.C. § 119 | • | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of | have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)). | on No ed in this National Stage | | | |
| Attachment(s) | • | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: <u>Attaching par</u> | ate atent Application | | | |

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/11/07 has been entered.

Note: The term "capable of" performs a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison 69 USPQ 138.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2, 10, and 12-16, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Hailey et al. (U.S. Patent 6,337,798).

As to claim 1, Hailey et al. discloses a printed circuit board (2) as shown in figure 3, comprising:

a first power plane layer (32) including first and second segments (labels as A and B, the segments formed on left and right sides of the power plane 32) and a third segment (C, a segment formed on a middle of the power plane 32) for connecting said first and second segments (see attaching paper attached with the Office action);

wherein electronic components (C1 and C2) are physically coupled only to said first and second segments (noted: the component C1 coupled to the first segment (on the left side) and the component C2 coupled to the second segment (on the right side));

and a first pair of conductive vias (46 and 48) each coupled to different points on said third segment, wherein a current transferred from said first segment to said second segment is determined by a potential difference and a resistance between said first pair of conductive vias (46 and 48).

As to claim 2, Hailey et al. discloses said first segment includes a plurality of conductive vias (45-48)

As to claim 10, Hailey et al. discloses said first segment comprises a rectangular geometry

As to claim 12, Hailey et al. said first segment is electrically characterized.

As to claims 13-15, Hailey et al. discloses said third segment <u>being capable of</u> (the term capable of being is defined as an intended use or adapted to) carrying current greater than about 20 amperes.

Art Unit: 2841

As to claim 16, Hailey et al. discloses the PCB <u>capable of being</u> having a lookup table is utilized for current derivation correlated with the difference in potential measured at said first pair of conductive vias.

As to claim 21, Hailey et al. discloses of said vias (45-48) comprising an end portion terminated on the third portion and another end portion terminated on a pad (the vias 45-48 having portions one on the third segment and another on the pad located on a surface of the board).

Response to Arguments

3. Applicant's arguments with respect to claims 1-2, 10, 12-13, 15-16, and 21 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gutierrez F. Diego can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/707,479 Art Unit: 2841

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tuan Dinh November 23, 2007.

TUAN T. DINH PRIMARY EXAMINER

0/23/07.

Attaching paper of higue 3

U.S. Patent

Jan. 8, 2002

Sheet 4 of 4

US 6,337,798 B1

